

Alekha Rao

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Education

Tufts University

Medford, MA. USA

Bachelors of Science in Engineering: Computer Science

2026

GPA: 3.78

Relevant Coursework: Software Engineering, Intro to Machine Learning, Algorithms, Machine Structures and Assembly Language Programming, Data Structures, Computer Science in C++, Web Programming, Linear Algebra, Multivariable Calculus

Cate High School

Carpinteria, CA. USA

GPA: 4.36

2022

Cum Laude Graduate

Relevant Coursework: Computer and Data Science in Javascript

Experience

Software Developer

Medford, MA

Tufts JumboCode

09/2024 - Now

- Worked with a team of 10 developers to design, develop, and launch a user-friendly web application using React, Next.js, and TypeScript for the frontend, with MongoDB for the backend.
- Contributed to building a platform aimed at supporting students navigating college without emotional or financial resources, providing them with tools to request and receive meaningful support.

Research Assistant at Human Interaction Lab

Medford, MA

Tufts University

09/2024 - Now

- Working on the Gailbot project, a conversational analysis transcription tool API that enables users to easily create Jeffersonian transcriptions, with features for marking paralinguistic elements in audio.
- Developing a React website to broaden Gailbot's user base, facilitating conversational analysis tasks. This includes using AWS EC2 for hosting and SQL for managing relational database interactions.

Artificial Intelligence Engineering Intern

Bangalore, INDIA

BLP Industry.AI

06/2024 - 08/2024

- Worked for an Industrial AI company that is building AI-powered solutions to meet challenges in the manufacturing industry
- Used OpenCV and Yolo Object Detection to build a Python Computer Vision solution for improving workplace safety.
- Utilized Image Annotation Tools such as Labelimg and Labelme to build a dataset of images to train the Computer Vision Model.
- Developed a better understanding of ML technologies, including Artificial Neural Networks, Convolutional Neural Networks, and Reinforcement Learning

Technology Consulting Intern

Singapore, Singapore

Ernst & Young

06/2023 - 08/2023

- Completed website revamp utilizing newly acquired skills such as UX research and Search Engine Optimization.
- Helped build and govern an AI HR chatbot using Generative AI and Machine Learning tactics on the Data & Analytics team
- Participated in client meetings, contributing valuable insights and helping build strong relationships with key partners such as the Infocomm Media Development Authority of Singapore

Deep Technology Research Intern

Singapore, Singapore

Elev8.vc

06/2021 - 07/2021

- Worked for a B2B focused VC fund which invests in early-stage deep technology founders.
- Performed market research to help identify investment trends and opportunities within the market of mobility
- Researched the Mobility landscape in Singapore and explored technology behind autonomous vehicles

Skills

Technical Development Skills: Python (NumPy, Pandas, Matplotlib, Seaborn, scikit-learn), C, C++, Javascript, Typescript, HTML, CSS, PHP, React, MySQL, PostgreSQL, MongoDB, APIs, Django, Git, Vercel

Other Technical Skills: Microsoft Office (Word, Powerpoint, Excel), Search Engine Optimization, UI/UX Research,

Soft Skills: Time Management, Creative Problem Solving.

Languages: Proficient in Mandarin